

JASON XIE

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EDUCATION

Columbia University

New York, NY

Bachelor of Arts in Computer Science and Psychology (Double Major)

May 2026

- **GPA:** 3.76/4.00 | **Honors:** Dean's List (all semesters), Ward H. Dennis Scholarship, Upsilon Pi Epsilon (Honor Society)
- **Relevant Coursework:** Data Structures and Algorithms, Computer Systems, Artificial Intelligence, Database Systems
- **Activities:** Application Development Initiative (DevFest Team), Columbia Organization of Rising Entrepreneurs (CORE)

PROFESSIONAL EXPERIENCE

Columbia Build Labs – Arlo

New York, NY

Software Engineer Intern

September 2025 – Present

- Build Arlo, an AI leasing platform for affordable housing applications, consisting of **Azure OpenAI vision agents**, **Supabase PostgreSQL backend & React/Next.js frontend**, reducing manual validation time by 90% for pilot users
- Design AI document verification pipelines leveraging GPT-4 Vision and optimized **full-stack architecture** (PostgreSQL schemas, Box API, TypeScript dashboards) to automate ID/income workflows and improve usability for pilot users

InstaLily AI

New York, NY

GTM Software Engineer Intern

May 2025 – August 2025

- Built a complete **AI-assisted sales platform** from zero to one, consisting of **Python MCP server**, Google ADK AI agent and Next.js, integrating 20 LLM tools for 15 pilot users, cutting new-feature onboarding by 30%
- Designed **PostgreSQL schemas & optimized SQL** for LLM-driven (**LangChain**) queries, boosting throughput by 25%
- Containerized & deployed full platform on **Docker** → **GitHub Actions** → **GCP Cloud Run**. Architected a Firestore-based credential flow + CI/CD pipeline, achieved > 99.9% uptime, and secured multi-tenant authentication

Columbia University Irving Medical Center – Shen Lab

New York, NY

Research Assistant | Computational Biology

May 2024 – August 2024

- Developed and fine-tuned **machine learning models** using TensorFlow and PyTorch to identify key genetic mutations
- Built robust data analytics pipelines by analyzing large-scale genetic datasets (**ClinVar**, **PrimateAI**) in Python and packaging workflows in **Docker**, boosting predictive accuracy by 20%

Lakeside Institute & Apply for China

Hangzhou, China

Founding Team

February 2021 – September 2021

- Co-founded Apply for China, an **online education platform** helping international students connect with universities in China; led product development and defined product roadmap, scaling to **200+ active customers across 15 countries**
- Led a four-person engineering team to ship a backend + frontend on **AWS**, ensuring scalable and reliable product delivery
- Mapped **user workflows** through interviews and analysis, then prioritized features that boosted daily engagement by 30%

PROJECTS

Repro-Bot AI | Yale Hackathon YHacks 2024

New Haven, CT

- Won the ActualFood Challenge for developing a **health AI chatbot** that bridges the communication gap in healthcare
- Gathered and analyzed user feedback to iterate on key features, resulting in a more user-friendly and scalable platform
- Developed frontend using **React.js**, ensuring data privacy and system robustness through secure **HIPAA API** integrations

VERSA | UCLA Hackathon LA Hacks 2024

Los Angeles, CA

- Developed a **cloud-enabled AI application** leveraging Python and Linux-based environments to assess research paper quality, incorporating comprehensive metrics beyond traditional citation counts
- Led product development by coordinating feature prioritization and roadmap planning to meet tight hackathon deadlines
- Achieved **top 5 placement among 100+ projects**, recognized for innovation in academic research evaluation

TECHNICAL SKILLS & INTERESTS

Spoken Languages: German (native), Chinese (native), English (native), Spanish (Elementary)

Programming Languages: Java, Python, C/C++, JavaScript/TypeScript, HTML/CSS, SQL, Ruby

Technologies: React/Next.js, Flask, TensorFlow, PyTorch, LangChain, Docker, GitHub Actions, GCP, Linux, PostgreSQL

Interests: Backpacking, Scuba Diving, Tennis, Golf, Skiing, Piano, Reading, Photography, Building Products, Cooking